

Meade County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/11/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 18 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Meade County economy.¹

These 18 sectors have a total direct output of approximately **\$217.8 million** and support **614 jobs** in Meade County. Running the model for all 18 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Meade County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	614.4	22.11%	\$39,423,995	19.46%	\$217,789,723	107.51%
Indirect Effect	237.6	8.55%	\$19,655,730	9.70%	\$35,820,493	17.68%
Induced Effect	151.2	5.44%	\$10,518,527	5.19%	\$19,675,807	9.71%
Total Effect	1003.2	36.10%	\$69,598,252	34.36%	\$273,286,023	134.91%

As shown in the above table, agriculture, food, and food processing sectors support **1,003 jobs**, or **36.10%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$273.3 million**, roughly **134.91% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 18 agriculture, food, and food processing sectors is approximately **\$69.6 million**, or **34.36% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **34.36% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **307 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Meade County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	306.5	\$65,695,789
Grain farming	215.0	\$125,565,783
Wholesale trade	69.7	\$14,241,385
Real estate	31.6	\$2,937,057
Animal production, except cattle and poultry and eggs	30.7	\$4,719,728
Truck transportation	26.3	\$5,229,851
Monetary authorities and depository credit intermediation	25.7	\$4,964,335
Support activities for agriculture and forestry	25.4	\$1,610,040
Accounting, tax preparation, bookkeeping, and payroll services	22.0	\$616,089
Retail - Food and beverage stores	13.2	\$750,875

The grain farming sector directly contributes approximately **\$125.6 million** to the Meade County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Grain farming	215.0	\$125,565,783
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	306.5	\$65,695,789
Wholesale trade	69.7	\$14,241,385
Oilseed farming	7.5	\$11,451,138
Owner-occupied dwellings	0.0	\$5,748,600
Truck transportation	26.3	\$5,229,851
Monetary authorities and depository credit intermediation	25.7	\$4,964,335
Animal production, except cattle and poultry and eggs	30.7	\$4,719,728
Real estate	31.6	\$2,937,057
Dairy cattle and milk production	11.4	\$2,760,722

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Meade County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	7.5	\$11,451,137.73
Grain farming	215.0	\$125,565,782.73
Vegetable and melon farming	2.6	\$294,589.94
Fruit farming	0.9	\$41,289.39
Tree nut farming	0.0	\$10.87
Greenhouse, nursery, and floriculture production	9.8	\$709,926.50
All other crop farming	11.8	\$1,360,695.98
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	306.5	\$65,695,788.57
Dairy cattle and milk production	11.4	\$2,760,722.29
Poultry and egg production	0.0	\$13,117.62
Animal production, except cattle and poultry and eggs	30.7	\$4,719,728.21
Commercial hunting and trapping	1.3	\$26,787.63
Other animal food manufacturing	2.0	\$2,672,856.60
Bread and bakery product, except frozen, manufacturing	3.6	\$399,490.86
Frozen cakes and other pastries manufacturing	0.2	\$32,138.33
Farm machinery and equipment manufacturing	4.3	\$1,606,605.73
Veterinary services	6.2	\$414,433.23
Landscape and horticultural services	0.7	\$24,620.69

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Meade County, the retail sector was omitted.